

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P189548

Luminaire Tested: **BRG-WD-5L35-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34970)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-5L35-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 5 (845 mA)
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3694.7 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

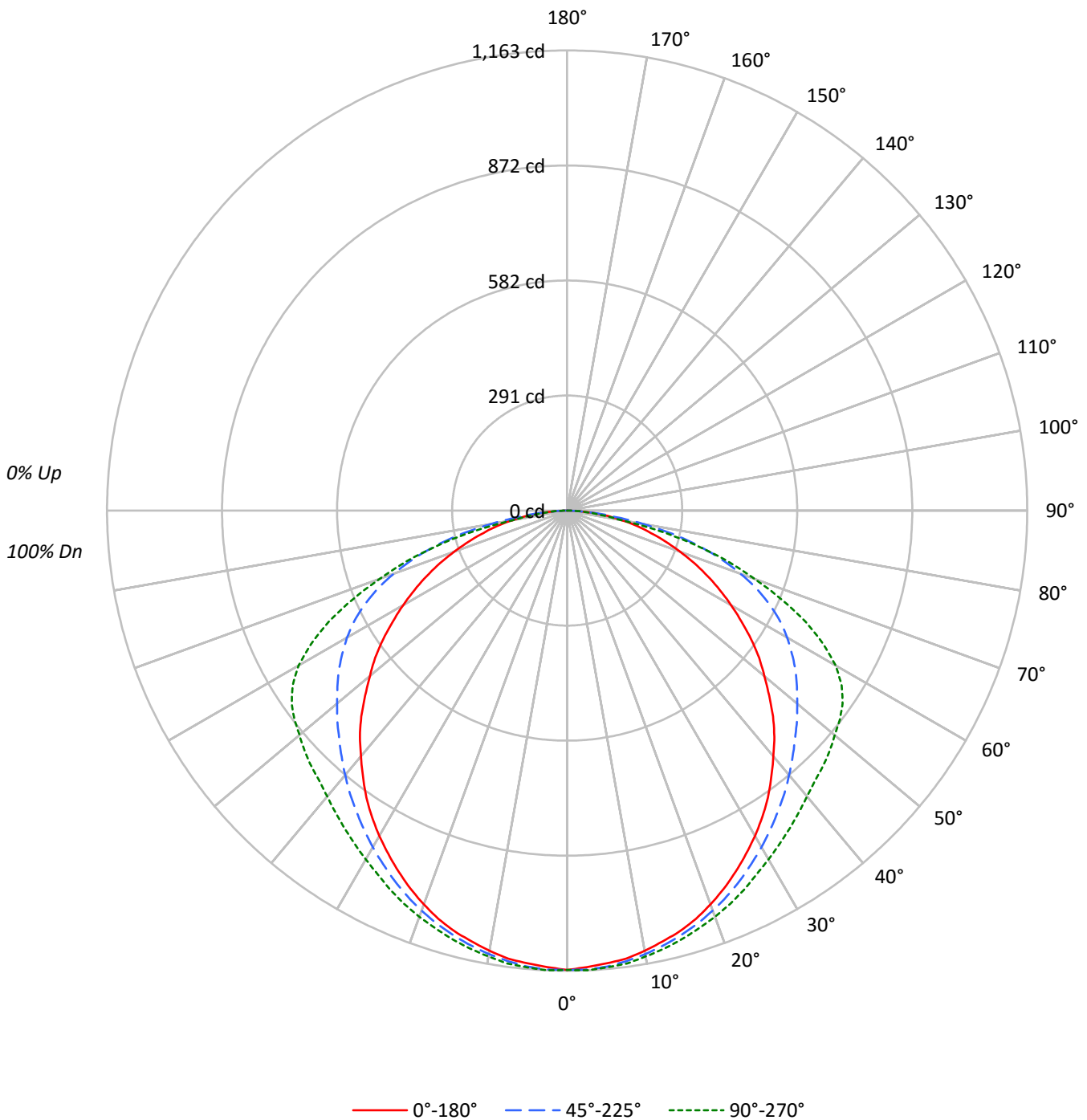
Input Watts (W): 39.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3718	3718	3718
5°	3692	3718	3725
10°	3674	3701	3721
15°	3650	3684	3718
20°	3610	3667	3723
25°	3560	3648	3736
30°	3511	3634	3764
35°	3461	3631	3833
40°	3389	3648	3943
45°	3333	3690	4140
50°	3243	3780	4400
55°	3171	3935	4745
60°	3067	4116	5019
65°	2969	4288	5042
70°	2834	4367	4716
75°	2718	4258	4155
80°	2600	3631	2562
85°	2286	2436	1903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	3.0
10°-20°	313.6	8.5
20°-30°	475.9	12.9
30°-40°	582.9	15.8
40°-50°	633.1	17.1
50°-60°	630.5	17.1
60°-70°	540.3	14.6
70°-80°	330.1	8.9
80°-90°	78.6	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	899.2	24.3
0°-40°	1482.0	40.1
0°-60°	2745.7	74.3
0°-90°	3694.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3694.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1148	1153	1157	1159	1159	109
15°	1101	1103	1111	1119	1122	310
25°	1008	1014	1032	1049	1057	464
35°	885	896	929	964	980	553
45°	736	757	815	879	914	566
55°	568	612	705	800	850	507
65°	392	464	566	638	665	388
75°	220	303	344	344	336	233
85°	62	83	66	56	52	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.9	1160.9	1160.9	1160.9	1160.9
2.5°	1154.7	1156.7	1160.9	1163.0	1163.0
5°	1148.5	1152.6	1156.7	1158.8	1158.8
7.5°	1142.2	1144.3	1148.5	1152.6	1154.7
10°	1129.8	1131.9	1138.1	1144.3	1144.3
12.5°	1115.3	1119.4	1125.7	1131.9	1133.9
15°	1100.8	1102.8	1111.1	1119.4	1121.5
17.5°	1082.1	1084.2	1094.6	1104.9	1107.0
20°	1059.3	1063.5	1075.9	1086.3	1092.5
22.5°	1034.4	1038.6	1055.2	1069.7	1075.9
25°	1007.5	1013.7	1032.4	1049.0	1057.2
27.5°	978.5	986.8	1007.5	1028.2	1036.5
30°	949.4	957.7	982.6	1007.5	1017.9
32.5°	918.3	928.7	955.7	984.7	999.2
35°	885.2	895.5	928.7	964.0	980.5
37.5°	847.9	864.5	901.8	943.2	961.9
40°	810.6	829.2	872.7	920.4	943.2
42.5°	775.3	794.0	843.7	899.7	926.6
45°	735.9	756.7	814.7	879.0	914.2
47.5°	692.4	721.4	787.7	860.3	899.7
50°	650.9	684.1	758.7	841.6	883.1
52.5°	611.5	648.9	731.8	823.0	868.6
55°	568.0	611.5	704.8	800.2	849.9
57.5°	522.4	574.2	673.7	773.2	823.0
60°	478.9	536.9	642.6	740.1	783.6
62.5°	435.3	503.7	607.4	696.5	729.7
65°	391.8	464.4	565.9	638.5	665.4
67.5°	348.3	429.1	520.3	572.2	586.7
70°	302.7	387.7	466.4	497.5	503.7
72.5°	261.2	346.2	408.4	422.9	425.0
75°	219.7	302.7	344.1	344.1	335.8
77.5°	182.4	252.9	273.6	257.1	242.5
80°	141.0	194.9	196.9	159.6	138.9
82.5°	101.6	138.9	122.3	95.4	85.0
85°	62.2	82.9	66.3	56.0	51.8
87.5°	22.8	26.9	22.8	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)